

The MARA/VARA Monitor

Published monthly by the Massanutten Amateur Radio Association, Inc., of Harrisonburg, Virginia for radio amateurs in the Shenandoah Valley.

OUR SYMPATHY

The ham radio community in the valley has been rocked by three major losses this month.

Sandra Neff, XYL of Elsworth Neff, K4LXG, passed away August 3rd, at the Green Valley Book Fair. She had, like many of us, suffered from asthma for several years. She had been employed by ComSonics for a number of years, and most recently had been employed at Sunnyside. Her recent primary work has been in helping charitable and worthy causes raise funds for operations. Her funeral on August 7 was held at the First Church of the Brethren on Dogwood Drive in Harrisonburg. The service was attended by many from the ham radio community. Many of us knew Sandra personally, and feel a deep sense of loss with her passing. The amateurs in this area extend their deepest sympathies to Elsworth.

Also, word was just received that Wilson "Tiny" Fielding, WD4FOZ, passed away suddenly on Sunday, August 23. At this printing, a memorial service was scheduled for Wednesday, August 26, at Thornrose Cemetery in Staunton. Tiny was the trustee and president of the Elliot's Knob repeater association, sponsor of the 147.045 repeater which recently returned to full power and coverage. Tiny is survived by his wife, the former Judy Cowardin, who is an advanced class ham KM4NX. Both Judy and Tiny are active members of the VARA club. We extend our deepest sympathies to Judy and the rest of Tiny's family at this difficult time.

And finally, Jeff Rinehart, W4PJW, suffered the passing of his mother, who for several months now has been in ill health in West Virginia.

We extend our wishes, hopes and prayers for the families of these loved ones.

HURRICANE BONNIE

As this issue is going to press, Hurricane Bonnie is bearing down on the North Carolina coast.

Below is some information which you might want to maintain in your reference files, in case another Hurricane Fran comes to the Valley.

The State ARES Repeater 146.745 (PL of 107.1) is used to distribute statewide ARES information. A few stations in the valley with high towers may be able to pick up this machine located in southwestern part of the state.

Our state ARES Coodinator and Assistant Section Emergency Coordinator is Gordon Garrett - K1GG, 4528 North Fork Road, Elliston, VA 24087, email: k1gg@swva.net

The Virginia Section Emergency Coordinator is Frank Mackey - K4EC, phone (703) 455-1510, and email: aresva@aresva.org.

Watch Net is the name of the net which is activated when a storm is anticipated in Virginia. When activated, it can be found on 14.325 MHz USB.

CALENDAR

- Sept 6: Tour de Valley Century Ride (Waynesboro)
- Sept 12: EMHS Varsity Track Meet (H'burg)
- Sept 19: Skywarn Basic I class (Sterling)
- Sept 23: Skywarn Flash Flood class (Sterling)
- Sept 24: Skywarn Basics II class (Sterling)
- Oct 3: VARA Picnic (Staunton?)
- Oct 3-4: Johnny Appleseed Ride (Timberville)
- Oct 17: Harrisonburg MS Walk (H'burg)
- Oct 17-18: Bike Virginia (Augusta County)
- Oct 17: VE Exams (H'burg)

JOE MOOMAW, W4XD, BREAKS HIS LEG

The term “break a leg” is the traditional way of saying “best wishes and good luck” for actors and actresses. But in the case of ham radio, the saying is not all that it’s “cracked up” to be. Joe Moomaw, W4XD, an “old timer” from the Staunton area, missed a step and fell three feet to the floor. The fall broke the big thigh bone that goes from knee to hip. He wound up in hospital at Elizabeth City, NC where a surgeon put it back together with what Joe calls, “a handful of hardware”.

Joe reports that the broken bone is the “most painful thing I ever had” but the good news is the pain is gone now and all he has left to do is learn to walk on one of those 4 legged walkers. We all wish Joe a speedy recovery. Joe is currently living with family on the other side of the mountains. If you’d like to send a card, his address is: c/o PO Box 483, Urbanna, VA 23175. His email address is moomawj@juno.com, but his mailbox fills up fast.

*Information provided by
Ray Colvin, KE4HVR*

SUN EXPLOSION COULD AFFECT HAM RADIO

Another major flare (X-class) event occurred this week on the sun. Thus, we can expect impact from this to affect the ham bands for the next week or two. The area of this flare has all the signs of producing further X-class or M-class flares. In short, the next week or two could be rough for working DX. The A-index is predicted to be in the 65-80 range. That's bad for radio waves.

If 20M and above are dead ... it's not your coax. If 20M and below sounds like the noise level from a thermonuclear bomb ... well, it almost is! The flare will also keep auroral activity in the northern and middle latitudes active. Go look for aurora ... there may be little else to do.

*Information provided by
Paul Helbert, WV3J*

SERVICE PROVIDES FREE WEB PAGE SPACE FOR HAMS

Announcing the World Radio Amateur Directory, a new QRZ service that has more information than ever before. All amateurs may now include up to 500 words of text about themselves to appear in each listing!

This is great guys. You can have a little personal webpage on the <http://www.qrz.com> website. Upload your QSL card or other digital image and personal biography today then put the address on you e-mail signature.

For an example just check mine out:
<http://www.qrz.com/wrad/directory.cgi?K1MKF>

73 de Mark K. Flanagan, K1MKF

BIG MOUNTAIN REPEATER GETS NEW CALLSIGN

Effective August 1st, the Big Mountain Repeater on 146.625 MHz will no longer hold the callsign of Bill Jones, KE4FM. Bill announced his “retirement” at the recent Bob’s Knob Bash.

The new call of the 146.625 machine will be that of WA4NIC, Lew Hensley. Lew has been with the repeater group for over sixteen (count ‘em, 16) years now, and has provided untold hours of service on the equipment.

Bill would like to thank all the people who have supported the machine in the past, and he hopes that the support will continue in the future. The machine has a reputation for having the highest fidelity of any machine in the valley, and its wide coverage makes it popular with the travelling hams on Interstate 81. The repeater is open to all hams, and carries no PL requirement.

Although the machine is off the air for a few days, it is expected to return shortly, possibly even by the time you read this.

VARA PRESIDENT'S MESSAGE

Hello to all and hope this finds everyone doing OK. We finally got some rain so we can now get the lawn mowers out again!!!

It was nice seeing everyone at the last Club Meeting. I hope to see you at the next one also.

We are planning a Club Picnic on October 3rd. 1998. For the final details stay tuned for the next Newsletter. Also listen on the local repeaters for more information, as plans are being made at this time.

It is that time of the year again where we need to think about Club Officers for the 1999 calendar year. If anyone would like to come forward and make a suggestion or offer to serve, please let me know.

At the last meeting Vince (K2VJ) gave a very good talk on being Tornado-Wise. He covered some things that you can do to protect yourself. I for one enjoyed this talk. I'm sure others did also. If you missed this, well, maybe next time.

If anyone has anything that they would like to give for a presentation at any meeting, let me know and we will work it out.

Going to keep it short this month and looking forward to seeing you at the next meeting and talking to you on the repeaters.

*Ken Harris, KE4GKD
VARA President*

VARA PICNIC SCHEDULED FOR OCT 3rd

Put the date on your calendars. The VARA club Picnic will be held on October 3rd. The Picnic Committee is working on plans for this event, so stay posted, and come to the September meeting for details.

MARA PRESIDENT'S MESSAGE

Where has the summer gone? Here it is September already! I hope you've gotten all your projects done that you had planned on.

The August meeting was attended by 17; down from the last 2 meetings, but still respectable for the nice weather. I had planned on a talk on inverted L's for 160 and 80, but we had such a good discussion going on the future of ham radio, about repeaters, Public Service, ARES, etc, that the time for the program slipped away, so I'll give that talk at a later date. That was very enjoyable and informative; we need to do that more often!

We've had a few Public Service events in the spring and summer, but now it seems that September and October are chock full of opportunities for us to assist the organizations that ask our help at this time of year. I'm sure the activities will be listed elsewhere in the newsletter, so I won't repeat them here. Be sure to check them out and plan to help.

We voted 3 new members in at the August meeting: Gary KE4DFH, Cary(no call, yet), and Puff N4FGY. Congratulations!

Program schedule for the next few months(note the change for October):

- September 3: Jim Junkins, Rockingham County EOC center, will speak to us on emergency communications.
- October 1: I will give my talk on Inverted L's for 160 and 80 meters.
- November 5: Paul WV3J, will speak on QRP, etc.
- December 3: Christmas Banquet at Pano's Restaurant, 6:30 pm.

I hope you are planning to attend the meetings, and the Christmas Banquet. I hope the weather cooperates this year as it did last year!

*David Tanks, AD4TJ
MARA President*

147.225 AUTOPATCH NOW HISTORY

This is just to let you know that the 147.225 phone patch will no longer be open for subscriptions. I guess you could say that we closed it.. The only time it will be used is if we need it for emergency or need to bring down the repeater for some reason. We found that there wasn't enough support for it so decided just to make it a way to program and bring down the repeater. We appreciate the support we had in the past. Thanks

*Donnie (Buck) Mowbray,
N3RIQ*

145.130 AUTOPATCH HISTORY FOR NOW

With the replacement of the Massanutten Peak repeater and the subsequent frequency change to 145.130, the N4YET autopatch is also officially off the air. There is no word on when the service will be restored, but in the meantime, subscribers will most likely be receiving a refund for a partial years' service. We are working closely with the trustees and owners of the 145.13 equipment to work out a satisfactory technical arrangement to restore autopatch service to the Harrisonburg area.

*Jay Suter,
W4QDC*

WANTED TO BUY...

Wanted: Tube type transceiver that's not working. K2VJ, phone 540 248-0810 (verona) or email: vincek2vj@rica.net

Vince Luciani, K2VJ

ELLIOTS KNOB REPEATERS ARE BACK UP TO FULL PERFORMANCE

The three repeaters located on Elliotts Knob are back up and operating. Thanks to the following Amateurs: Durwood (WA4ZBP) Ray (KE4HVR) Lynn (KB4KL) Bud (KA4RCL) Gary (KF4PFR) Cowles (KB4CNI) Pat (KD4WWF) and Ken (KE4GKD) It seems like we hit a Hot Spot as we did not but the tower back up as high as it was but the repeaters seem to be working as well. Give them a try and let us know what you think.

The repeaters are:

- **147.045 MHz (+ offset) PL Tone 131.8**
- **444.100 (+ offset) PL Tone 131.8**
- **224.300 (- offset) PL Tone 131.8**

FCC PROPOSES TO STREAMLINE AMATEUR LICENSE STRUCTURE

The FCC has proposed to phase out the Novice and Technician Plus class licenses, leaving just four amateur license classes in place--Technician, General, Advanced, and Extra. The Commission also has asked the amateur community to express its opinions on Morse code requirements for licensing and testing, but offered no specific changes. And the FCC proposed to permit Advanced class licensees to administer amateur exams up through General class. The proposals were among several suggested rules changes and invitations to comment contained in an FCC Notice of Proposed Rulemaking, WT Docket 98-143, made public August 10, 1998.

In proposing to phase out the Novice and Tech Plus tickets, the FCC said "there appears to be an unnecessary overlap between the Novice, Technician, and Technician Plus license classes." The FCC also said that Technician and Tech Plus operators "predominantly" use FM and packet on VHF and UHF. In addition, the FCC said Novice applicants last year numbered fewer than 1000, while there were nearly 21,500 Technician applications.

Under the FCC plan, Novice and Tech Plus licensees would retain current operating privileges, but no new Novice or Tech Plus licenses would be granted. For examination purposes, current examination elements 2 and 3A would be combined into a new element 3A. For administrative purposes, the FCC would combine the current Technician and

Tech Plus databases into a single Technician database. The proposal would eliminate the 5 WPM code test, Element 1A, as a required element for any class of license.

The elimination of the Novice and Tech Plus license classes would effectively raise the bar for future applicants desiring to gain HF operating privileges, unless the FCC ultimately reduces Morse code testing requirements. Since the General class license would become the entry-level HF ticket under the FCC's proposed rules, applicants would have to pass at least the 13 WPM code test.

The FCC did not propose to change any operating frequencies or license privileges for amateurs. However, the FCC does seek comment on the disposition of the current Novice HF bands, which carry a 200-W output power limit for all licensees. The FCC invited comment on whether it would be "appropriate" to delete the Novice bands and the power restrictions on higher-class licensees and permit Novices to operate CW anywhere on 80, 40, 15, and 10 meters at 200 W output.

The FCC opened the door to comments on all aspects of Morse code testing from the amateur community. In particular, the Commission said it wants to know if hams prefer the current three-level system or would like to see it reduced to a one or two-tier system--and, if so, at what required speeds. The FCC asked whether hams would be willing to trade a reduction in Morse code requirements for additional written elements on newer digital technologies "which, in part, are replacing the Morse code." And, the Commission asked whether it should consider specifying Morse code examination methods, such as fill-in-the-blank or one minute of solid copy, instead of allowing VEs to determine the testing method.

In a related issue, the FCC also seeks comments on how to deal with potential abuses of the current disability waiver for higher-speed Morse code tests. In RM-9196, the ARRL had asked the FCC to require anyone applying for an exemption pursuant to a doctor's certification to first attempt the higher-speed test before examination credit could be given. The League also asked that VECs have access to relevant medical information from the certifying physician. The FCC said the ARRL's proposal would place "an unfair burden on examinees" and raised serious privacy and confidentiality issues.

The FCC went along with an ARRL petition and proposed allowing Advanced class hams to be eligible to prepare and administer license examinations up through General class under the VE program. The Commission said the change would permit greater testing opportunities for hams. The FCC also invited comments on whether it should change written examination requirements "to provide VEs and VECs additional flexibility in determining the specific contents of written examinations."

Referring to yet another ARRL petition, RM-9150, the FCC invited comments on how it can improve its Amateur Radio enforcement processes. The FCC applauded the ARRL "for its creative thinking" in that petition, but said the specific proposal was "inconsistent" with the current statutory role of administrative law judges. The FCC raised the possibility of encouraging complainants to include a draft order "to show cause to initiate a revocation or cease and desist hearing proceeding." The FCC said it also wants to hear how it can better use the services of the Amateur Auxiliary in beefing up enforcement.

The FCC proposed to phase out Radio Amateur Civil Emergency Service, or RACES, stations by not renewing their licenses. No new RACES licenses have been issued since 1980, and only 249 valid licenses remain. The FCC said RACES stations no longer are needed because any amateur station that has been properly registered with a civil defense organization has the same privileges as a RACES station.

The FCC also took the occasion to clarify the definition of "power" as used in the RF exposure table in Section 97.13(c)(1). The FCC said it refers to peak envelope power (PEP) input to the antenna. It also made clear that no one holding an FCC-issued ham ticket may apply for a reciprocal permit for alien amateur license.

The FCC set a longer-than-normal comment period. The deadline for comments is December 1, 1998. The deadline for reply comments is January 15, 1999. The FCC will accept electronic comments via the Internet at <http://www.fcc.gov/e-file/ecfs.html>.

Details of the FCC plan can be found on the web at: <http://www.fcc.gov/Bureaus/Wireless/Notices/1998/fcc98183.wp> (a WordPerfect format), or <http://www.fcc.gov/Bureaus/Wireless/Notices/1998/fcc98183.txt> (the plain text format).

Additional information is available on the web from: http://www.fcc.gov/Bureaus/OGC/News_Releases/1998/nrgc8004.html (the news release), and <http://www.arrl.org/arrlletter/98/980807/> (the ARRL letter announcement).

ARRL PROPOSAL: LEAGUE PROPOSES SIMPLIFIED LICENSE STRUCTURE

The ARRL has proposed a simplified Amateur Radio license structure featuring four license classes and reduced Morse code requirements for full HF access. In approving the plan July 18, the ARRL Board of Directors said the hobby no longer needed six license classes. In their discussions, Board members emphasized that the objective was to rationalize and simplify the amateur

licensing structure without reducing the requirements for any class of license.

Among its recommendations, the plan would eliminate the current Novice and Tech Plus class licenses and merge those operating privileges into a new license class equivalent to the current General ticket. The plan would replace the present named license classes with Class A, B, C, and D tickets, revise written examination requirements and content, and set 12 WPM as the highest Morse code test requirement. Most of the spectrum freed up by the elimination of the current Novice CW bands would be "refarmed" into expanded HF phone segments. Some would remain available for digital and CW, however.

Announcement of the Board's plan generated a tumult of opinions pro and con within the Amateur Radio community. Comments received at League Headquarters have ranged from angry opposition to enthusiastic support, but by the end of the week in which the plan was announced, most Board members reported receiving somewhat more comments in favor than opposed.

The League has forwarded details of the plan in a letter to the FCC but will not petition for a rulemaking as it awaits public release of the Commission's own ham radio restructuring plans (see related story below). In its letter, the ARRL asked the FCC to "consider this restructuring plan as a means of modernizing and simplifying amateur radio licensing, and a means of making Amateur Radio available to more people."

Before the July meeting, the ARRL Board had twice voted down motions to consider changing the licensing structure. This time, the impending FCC rulemaking provided the impetus for the Board to issue its own plan, in time to stimulate debate on the topic and possibly serve as a counterpoint to the anticipated FCC proposals.

ARRL Board approval of the plan followed extensive discussion and debate during its recent three-day meeting. "The debate was, at times, contentious, and the result was not unanimous," said ARRL President Rod Stafford, W6ROD. The vote to approve the plan was 9 to 6. Most of those in the minority were not opposed to simplifying the licensing structure, however, and there was sentiment for even fewer license classes.

"Some Board members preferred greater simplification; others were uncomfortable with some of the changes being proposed," Stafford observed. "However, every Board member, without exception, left the meeting knowing that each of his or her colleagues did what they believe is best for the future of Amateur Radio."

In developing its plan, the Board tied proposed reductions in Morse code requirements to corresponding increases in written examination standards. On the other hand, Board members were adamant that simplifying the structure should not come at the expense of privileges amateurs already have earned. This was the rationale to recommend granting the new entry-level Class C HF license to present Novice and Technician Plus licensees, who already have earned entry-level HF operating privileges.

Charts depicting the proposed operating privileges and licensing structure and the text of the League's letter to the FCC are available on the ARRLWeb site at <http://www.arrl.org>. Members may comment on the ARRL plan via the Web or via e-mail to restrux@arrl.org.

Here are the highlights of the ARRL Board's restructuring plan:

* The Class D license, equivalent to the current Technician class, would be the entry level ticket to Amateur Radio. Operating privileges and the written examination would remain at the same level at Technician, but the exam would be more consistent with Class D operating privileges.

* The Class C would supplant the Novice as the entry level to HF. Under the League plan, all General, Tech Plus, and Novice licensees would become Class C licensees. The Class C ticket would convey current General privileges, but would offer bigger HF phone bands. Class C licensees would have access to another 50 kHz on 75 and 15 meters and another 25 kHz on 40 meters. To upgrade from Class D to Class C, an amateur would pass a written examination on the operational and technical qualifications required for HF operation plus a 5 WPM Morse code test.

* All amateurs now licensed as Advanced would become Class B. The Class B would convey the privileges of the present Advanced license, but with additional phone privileges. The Class B ticket would offer an additional 50 MHz on 75 and 15 meters and another 25 kHz on 40 meters. To upgrade from Class C to Class B, an amateur must pass a more advanced written examination--similar in difficulty to the present Element 4A--and a 12 WPM Morse code exam.

* All amateurs presently licensed as Amateur Extra Class would become Class A. The Class A ticket would convey the full privileges of the present Amateur Extra Class but, once again, with expanded phone subbands. Class A licensees would get an additional 50 kHz on 75 and 15 meters and another 25 kHz on 40 meters. To upgrade from Class B to Class A, an amateur would be required to pass the most difficult written examination in the sequence. The Advanced written test is considered the most difficult in the current exam sequence. Consistent with the practice in many other countries, no Morse code examination beyond 12 words per minute would be required for a Class A ticket.

Adoption of the simplification plan culminated some 30 months of work by the Board and embraced input from thousands of ARRL members, nonmembers, and prospective hams. The Board debated a wide variety of options including more and fewer license classes, higher and lower qualification levels, and different privileges. Members are urged to contact their ARRL directors to comment on this proposal. E-mail addresses are on page 10 of any issue of QST. Members also may comment on the proposal via the ARRLWeb site, <http://www.arrl.org> or via e-mail at restrux@arrl.org.

VARA SECRETARY'S REPORT

August 12, 1998 Meeting

The Valley Amateur Radio Association (V.A.R.A.) club meeting was held at Gavid's Restaurant in Staunton on August 12, 1998. The meeting was opened at 7:30 p.m. by the club president, Ken Harris (KE4GKD). A round of introductions was made. There were 25 members and guests present.

The 50/50 winner was Benny Cook (KF4CZK). The total amount raised was \$29. Benny donated his portion of the total back to the club treasury.

The secretary report was accepted as printed in last month's newsletter.

Sam Pickering (KF4EKV) reminded the club of the option of having a chicken barbacue to raise money for the club. John Boy's Chicken is an option and more details will be discussed later when we are closer to the signup date.

A club picnic has been scheduled for October 3 at Gypsy Hill Park. June Waldmuller (KC4PKJ), Kay Cook (KF4CZL), and Joan Pitsenbarger (KF4CWR) will be heading up this event.

Officer positions for 1998 will be discussed next month.

Clint Campbell (KB4OLM) and Curtis Crigler (KB8PJI) was voted on and accepted into the club as new members.

Vince Luciani (K2VJ) gave a presentation on Tornadoes. He highlighted certain aspects of these dangerous storms and how you can detect them as described in his book, "Tornado-Wise!" The club auctions off a few of these books at most meetings as a fundraiser for the club. Ask about them during the meeting.

There was a motion to adjourn the meeting of the Valley Amateur Radio Association (V.A.R.A.). The motion was accepted and the meeting was adjourned at 8:45 p.m.

*Submitted by:
Douglas S. Zirk (KE4RMD)
Secretary*

**The deadline for the October Monitor is Monday
September 21.**

MARA SECRETARY'S REPORT

July 9, 1998 Meeting

The monthly meeting of the Massanutten Amateur Radio Association for July was held at Evers Restaurant at Mt. Crawford, Va. There were thirty-three members and guests present.

The meeting was opened by the president and introductions were made. The treasurer reported a balance of \$ 1,840.52 in the bank before the meeting.

The following committee reports were given:

ARES: A plaque was presented from the March of Dimes in appreciation of the club's community service during their recent walk-a-thon. We were reminded of the Bridgewater Lawn Party 17-18 Jul. It was voted to make this a club project since we will receive a donation for help. The Johnny Appleseed activity was announced for 26 July, as well as the EMHS Varsity on 12 Sep, the Johnny Appleseed Ride on 3 and 4 Oct, the MS-Harrisonburg on 17 Oct, as well as Bike Virginia the same date. Both the 12 September and the Bridgewater activity were voted as club projects.

OLD BUSINESS: Both Kevin (KF4WWM) and Douglas (KF4YGO) were voted into membership.

NEW BUSINESS: The following applications for membership were read: Cassie Brocki (No Call), Gary Morin (KE4DFH), Warren (Rusty) Rothgeb (KF4QAV), and Joseph Puffenbarger (N4FGY).

Various Hamfests were announced and Dick (W3HXH) won the 50/50.

FIELD DAY CRITIQUE was the program and thanks were expressed to all who participated and helped in any way. In spite of a thunder storm all went well. Over all this was an excellent Field Day.

ALL ARE REMINDED OF THE BIG MOUNTAIN REPEATER PICNIC ON 16 AUGUST. AKA BOB'S KNOB BASH.

*Respectfully submitted,
Wilton B. Thomas (KF4BFL)
Secretary*

Editor's Note: The August MARA meeting minutes did not arrive in time to make the printing deadline.

MASSANUTTEN ARA

President: David Tanks, AD4TJ
Vice-President: Walt Lam, KF4BFB
Secretary: Wilton Thomas, KF4BFL
Treasurer: Matthew Huffman, KD4UPL
Board (exp 98): Sandy Mullins, K4PZC
Board (exp 99): Bob Hughes, KF4BFC

MARA meets the first Thursday of each month at Ever's Restaurant on U.S. 11, south of Harrisonburg. Meal starts at 6:30 pm, Business Meeting starts at 7:30 pm
Visitors are welcome.

Dues (\$12/yr) should be mailed to the Treasurer,
Matthew Huffman, KD4UPL, 5166 Mt Clinton Pike,
Harrisonburg, VA 22801

THE VALLEY ARA

President: Ken Harris, KE4GKD
Vice-President: Karen Zirk, KE4WIE
Secretary: Doug Zirk, KE4RMD
Treasurer: Jeff Rinehart, W4PJW

VARA meets the second Wednesday of each month at Gavid's Restaurant on US Route 11 South in Staunton. The meal begins around 6:30 and the business meeting begins at 7:30.
Visitors are welcome.

Dues (\$15/yr) should be mailed to the Treasurer,
Jeff Rinehart, 1344 Hankey Mtn Hwy, Churchville, VA 24421

The *Monitor* is published monthly by the Massanutten Amateur Radio Association, Inc., a non-profit organization under the Internal Revenue Service regulations. The *Monitor* is distributed to all full current members of the Massanutten and the Valley Amateur Radio Associations under reciprocal agreements of the two clubs. Sample copies are sometimes sent to other hams in the Shenandoah Valley to invite them to join the club of their choice. All change of address, articles, comments, and material for the *Monitor* should be sent to the Editor, David R. Fordham, KD9LA, 131 Wayside Drive, Weyers Cave, VA 24486-2421, phone 540-234-0448, email: fordhadr@jmu.edu.

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